

CASSETTE-RECEIVER

# KRC-3003 KRC-2003 KRC-1003

### INSTRUCTION MANUAL

KENWOOD CORPORATION

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Take the time to read through this instruction manual. Familiarity with installation and operation procedures will help you obtain the best performance from your new cassette-receiver.

#### For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on this product.

Model KRC-3003/2003/1003

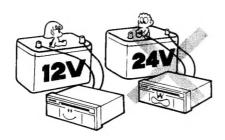
Serial	number	
Colla	THE PROPERTY OF	

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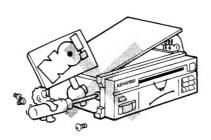


# TO PREVENT ELECTRIC SHOCK, FIRE AND OTHER INJURY. PLEASE NOTE THE FOLLOWINGS:

 The unit is designed to be connected 12 V DC and negative grounding.



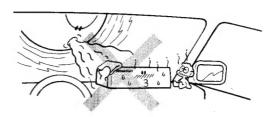
• Do not open enclosure, such as front panel, top or bottom cover.



 Do not drop pieces of metal, needles, coins and other electrically conductive materials into the unit.



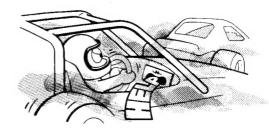
Do not place the unit, where it will be exposed to direct sunlight or close to heating device.



• Do not dash water on the unit.



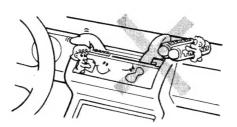
Do not place the unit in areas of excessive dust, high humidity or on unstable surfaces.



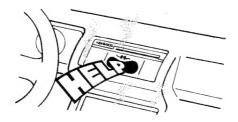
## NOTE

#### **CLEANING**

- Turn the power off, before cleaning the unit.
- Do not use any type of abrasive pad, thinner, benzine and any such kind of objects.
- 3. Wipe the front panel and other exterior surfaces of the unit with a soft dry cloth or a soft cloth lightly moistened with a neutral detergent.



If an abnormal smell or smoke is detected, immediately turn the power off.



If you have difficulty in installing the set in your car, please contact your KEN-WOOD dealer.

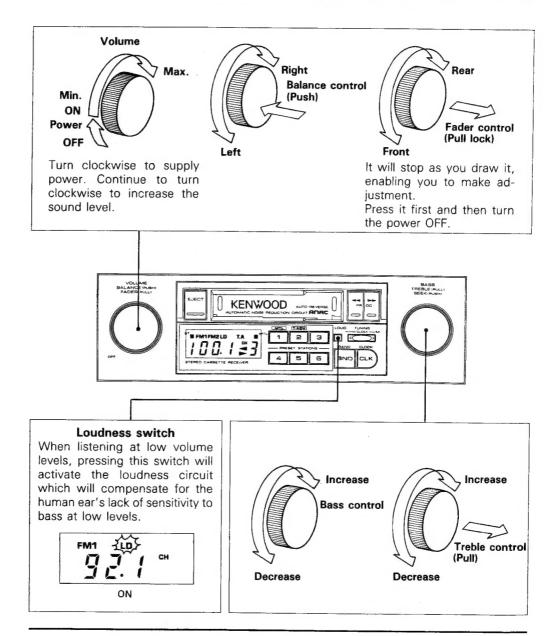
#### **NOTES ON HANDLING TAPE**

- Before loading a cassette, check the tape for slack. If there is slack tape, remove it using a pencil to turn one of the spools in the cassette shell.
- Do not expose the cassette tape to direct sunlight. Leaving a cassette at high temperature or humidity can deform the cassette shell or tape.
- 120-minute tape is very thin. Avoid its use, because it can easily be twisted around the pinch roller.

#### **HEAD CLEANING**

Magnetic particles from the tape adhere to the head surface after a long period of use, resulting in noise and poor quality sound. Clean the head with cleaning tape available at your KENWOOD dealer. And follow the directions with the head cleaner.

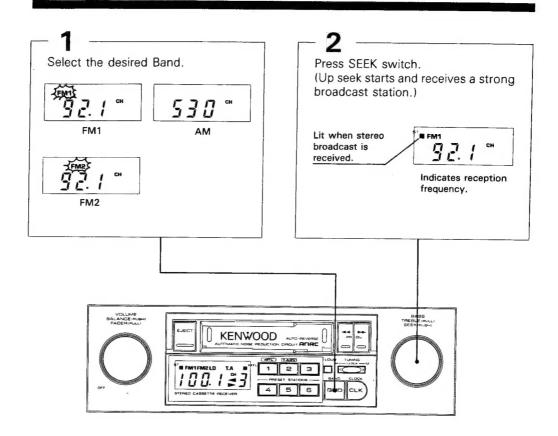
### **SOUND LEVEL AND QUALITY**





- 1. Turning the power ON automatically turns this unit to a tuner mode.
- 2. Explain how to operate hereafter with the power ON.

#### **SEEK TUNING**



#### ■ Channel space selection

The KRC-3003/2003/1003 has a channel space select function. Two spacing frequencies are available for both FM and AM; 200 kHz or 25 kHz for FM, and 10 kHz or 9 kHz for AM.

1. With the power off, press the "1" and the "5" Preset station switches simultaneously.

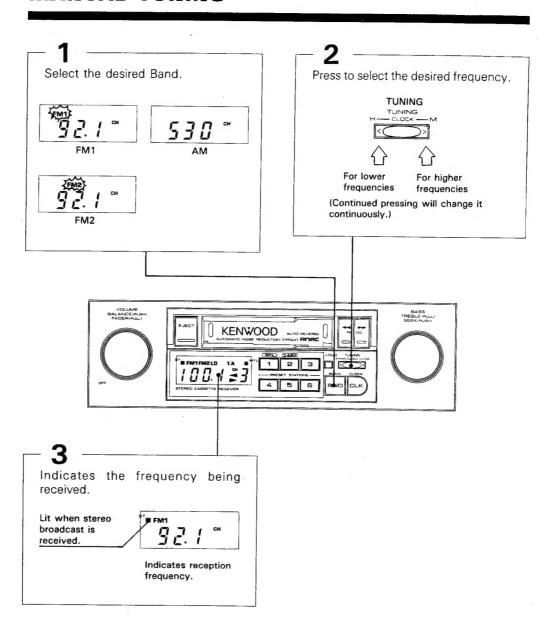
- 2. Turn the power ON while holding both switches pressed.
- 3. The channel spacing is changed to 25 kHz for FM and 9 kHz for AM. To return to the initial condition (200 kHz for FM and 10 kHz for AM), perform this operation once more.
- When the channel spacing is set to 25 kHz for FM, the last "50" is expressed by 50 in the display.

For example:

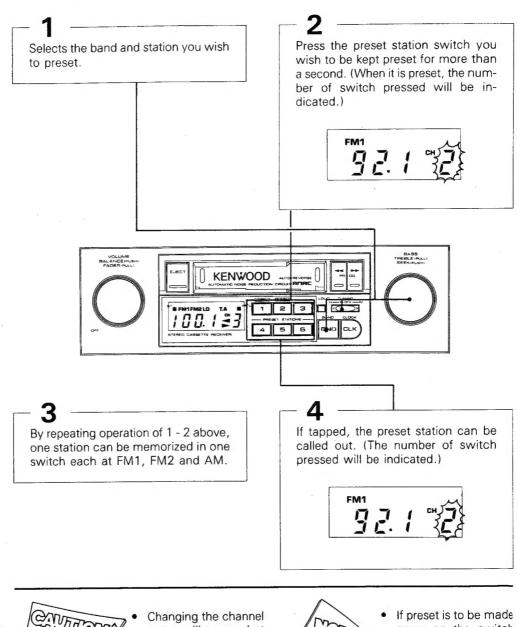


- When the channel space is changed, the memorized contents are stored.
- The channel space selection is not used in United States or Canada.

### **MANUAL TUNING**



### PRESET STATION TUNING



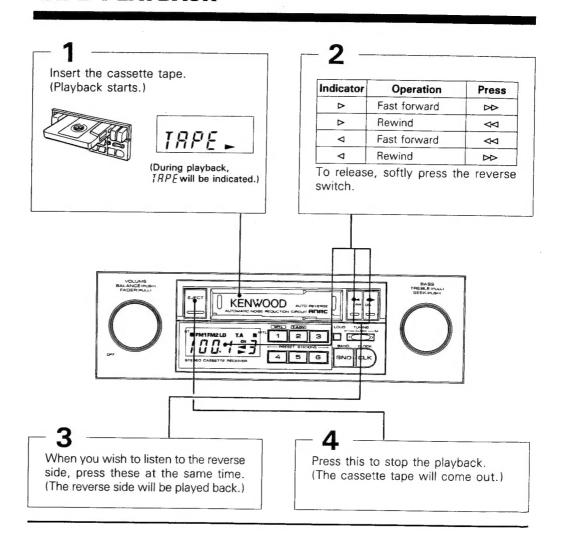


 Changing the channel space will erase what was preset.



If preset is to be made anew on the switch already preset, what was preset before will be replaced with what is to be preset.

#### TAPE PLAYBACK



#### < Playback side >

When inserted with the side A up

Indicator	Playback side
<b>&gt;</b>	Side A
٥	Side B

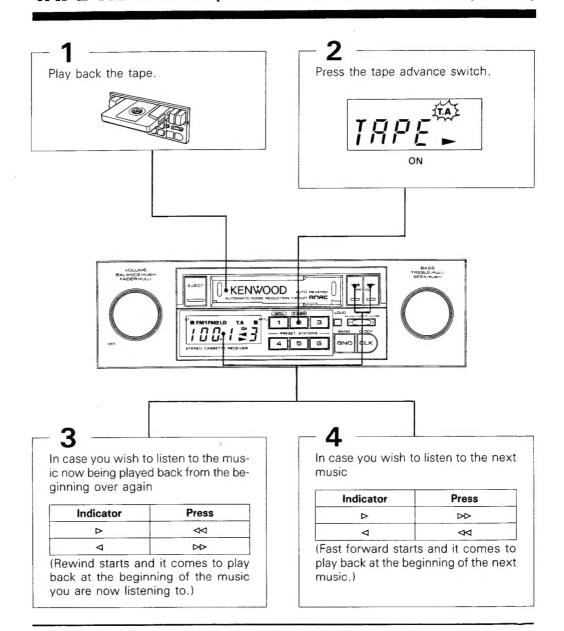
This will be reversed when inserted with the side B up.

#### <Other operation>

 Press the Metal switch to play back a CrO<sub>2</sub> or Metal tape.



### TAPE ADVANCE (Functions of the KRC-3003/2003.)





- Please note that in case of the following tapes, sometimes the tape advance does not function properly.
- When an interval between the music is less than 5 seconds.
- 2. When a recorded portion of the low sound volume continues for more than 5 seconds.

### **CLOCK INDICATION AND CLOCK ADJUSTMENT**

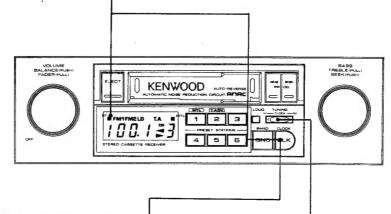
#### **■ CLOCK INDICATION**

Every time you press the clock switch, the following indication will appear.

Mode	Indication  Reception frequency ↔ Clock	
Tuner mode		
Tape mode	TRPE ↔ Clock	



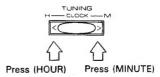
 If tuning operation is made with clock indication at tuner mode, it will come to indicate the frequency temporarily.



#### **■ CLOCK ADJUSTMENT**

Make it clock indication and then continue to press the clock switch.

While continuing the operation of 1 above, adjust "HOUR" at the H side and "MINUTE" at the M side.



(Continued pressing will change it continuously.)

### **ACCESSORY AND INSTALL MANNER**

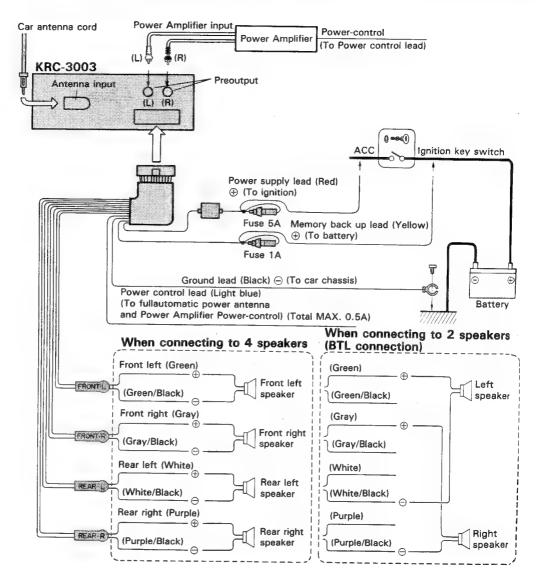
#### **ACCESSORY**

No.	Part name	External View	Number of units	No.	Part name	External View	Number of units
1	Trim Plate	0	1	6	Tapping screw (M5×16)		2
				7	Hex. Bolt (M5×20)		1
2	Control Knobs		2	8	Hex. Nuts (M10)	(1)	4
3	Metal Plate		2	9	Lock Washer (M5)	<b>(</b> )	4
				10	Flat Washers (M5)	0	1
4	Metal Mounting Strap	GEEE STIETS ESTIMES	1	①	Hex. Nuts (M5)	<b>(i)</b>	1
(5)	Sems Screw (M5×8)		1	12	Flat Washers (M10)	0	4

#### **■ INSTALL MANNER**

- 1. Before installation and wiring, remove the (-) terminal of the battery to prevent short-circuiting.
- 2. Connect the input and output cords of the system.
- 3. Connect the ground to the metal chassis of the car.
- 4. Connect the back-up power supply lead (yellow).
- 5. Connect the accessory power lead (red).
- 6. Install the set and after confirming the installation and wirings are correct, connect the (-) terminal of the battery.

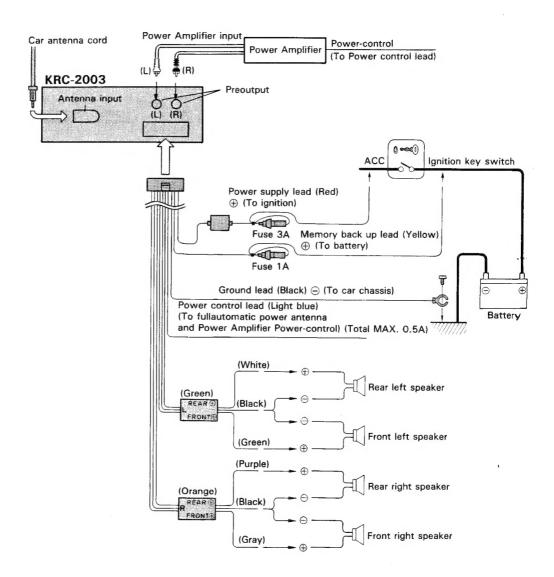
### **CONNECTIONS (KRC-3003)**



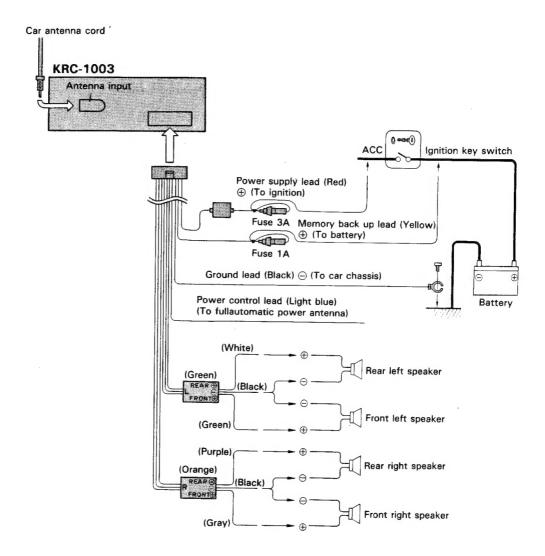


- As the unit uses BTL output, always connect the black stripe speaker wires to the ⊝ terminals of the speaker systems. Never let any speaker wires touch and never connect them to the chassis (ground). Do not let the speaker terminals come into contact with the chassis (ground).
- Insulate any unused output wire to prevent a short circuit.
   Secure unconnected wires properly so that they do not contact the vehicle chassis.
- If a fuse is blown, first check that the associated wires are not short-circuited, then replace
  the fuse with a new one having the same capacity.

### **CONNECTIONS (KRC-2003)**



### **CONNECTIONS (KRC-1003)**

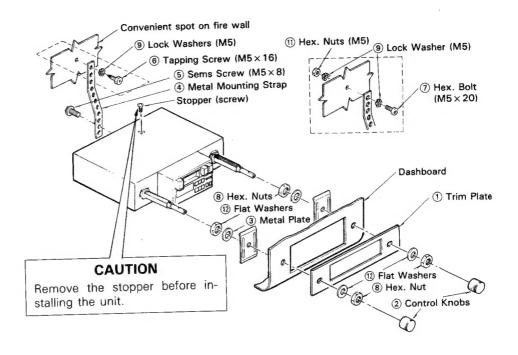




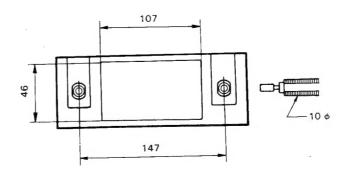
Preout function is not provided on this unit.

### INSTALLATION

#### <Example of installation>



The distance between the right and left shafts is adjusted to 147 mm.



### TROUBLESHOOTING GUIDE

What often appears to be a malfunction is often due to user error in operation or connection. When trouble occurs with your unit, please check the following before calling for service.

Symptom	Possible cause	Remedy Replace if blown with same rating. Adjust the balance/fade control.		
No power	Blown fuse			
No sound one channel	The balance/fade control is extremely rotated to one side.			
Poor reception	The antenna is not extended.	Extend the antenna.		
Tonal quality is inferior.				
Tape creaks.	Head is stained.	Carry out head cleaning.		

### **SPECIFICATIONS**

Specification subject to change without notice.	
FM TUNER SECTION	
Frequency Range (200 kHz space)	97.0 M/c 107.0 M/r
(25 kHz space)	97.5 MHz 109.0 MHz
Usable Sensitivity	13.3 dP( /1.3. ) //75 above
50 dB Quieting Sensitivity	15.2 dbt (1.6 ) 1/75 onms)
Frequency Response	15.2 dBf (1.5 µV//5 ohms)
Signal to Noise Ratio	30 HZ - 15 KHZ I 3 GB
Selectivity	70 dB
Capture Ratio	70 08
Image Response Ratio	2.0 db
IF Response Ratio	120 48
Stereo Separation (1 kHz)	38 dB
AM TUNER SECTION	
Frequency Range (10 kHz space)	E20 (U= 1620 ):U=
(9 kHz space)	530 KHZ - 1620 KHZ
Usable Sensitivity (S/N 20 dB)	531 kHz — 1611 kHz
	28 dB (30 μV)
CASSETTE DECK SECTION	
Tape Speed	4.76 cm/sec.
Wow & Flutter	0.12% (WRMS)
Fast Winding Time	100 sec. (C-60)
Frequency Response	30 Hz - 14 kHz ± 3 dB (120 us)
	30 Hz 16 kHz + 2 dB /70 -1
Stereo Separation (1 kHz)	40 dB
Signal to Noise Ratio	54 dB
AUDIO SECTION	
[KRC-1003/2003]	
Maximum Output Power (1 kHz, 4 ohms)	6 W + 6 W
Rated Output Power (10% THD, 1 kHz, 4 ohms)	5 W + 5 W
(1% THD, 30 Hz-20 kHz, 4 ohms)	4 W + 4 W
[KRC-3003]	
Maximum Output Power (1 kHz, 4 ohms)	25 W + 25 W
Rated Output Power (10% THD, 1 kHz, 4 ohms)	20 W + 20 W
(1% THD, 30 Hz-20 kHz, 4 ohms)	15 W + 15 W
Tone Action Bass	100 Ha + 10 AB
Treble	10 Hz ± 10 dB
[KRC-2003/3003]	10 km2 ± 10 aB
Preout Level/Load	
	1000 mV/10 kohms
GENERAL	
Operating Voltage	14 4 V (11 - 16 V)
[KRC-1003/2003]	
Current Consumption	1 E A at Dated Days and
Installation size	1.5 A at hated rower
(VDC 2003)	100 x 50 x 130 mm (7-1/16 x 1-15/16 x 5-1/8 in.)
[KRC-3003]	
Current Consumption.	5.3 A
Installation size	
Weight	1.3 kg /2.0 lb)
-	1.0 kg 12.0 lb)